



Capabilities of chatGPT?

by: Dr. Wajahat Hussain



How Does ChatGPT Perform on the Medical Licensing Exams? The Implications of Large Language Models for Medical Education and Knowledge Assessment

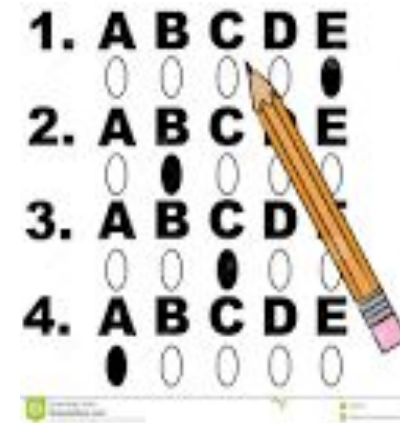
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Conclusion: ChatGPT marks a significant improvement in natural language processing models on the tasks of medical question answering. By performing at greater than 60% threshold on the NBME-Free-Step-1 dataset we show that the model is comparable to a third year medical student. Additionally, due to the dialogic nature of the response to questions, we demonstrate ChatGPT's ability to provide reasoning and informational context across the majority of answers. These facts taken together make a compelling case for the potential applications of ChatGPT as a medical education tool.



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ChatGPT passes MBA exam given by a Wharton professor

The bot's performance on the test has "important implications for business school education," wrote Christian Terwiesch, a professor at the University of Pennsylvania's Wharton School.

ChatGPT uses AI to pass final exam at UPenn's Wharton

02:23



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NEWS | 18 January 2023

ChatGPT listed as author on research papers: many scientists disapprove

At least four articles credit the AI tool as a co-author, as publishers scramble to regulate its use.

[Chris Stokel-Walker](#)

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ChatGPT: Bullshit spewer or the end of traditional assessments in higher education?

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We conclude the article with recommendations for students, teachers and higher education institutions. Many of them focus on assessment.

Why not ask chatGPT?

ChatGPT

How to prevent students from using chatGPT for their assignments?

ChatGPT Feb 13 Version. Free Research Preview. Our goal is to make AI systems more natural and safe to interact with. Your feedback will help us improve.



As an AI language model, ChatGPT is designed to be a tool that can assist and augment learning, rather than hinder it. However, if you are concerned about students using ChatGPT to complete their assignments instead of doing their own work, there are several strategies you could consider:

1. Clearly communicate your expectations: Be clear with your students about your expectations for their assignments, and make it clear that using ChatGPT or any other automated tools to complete their work is not allowed. Explain the reasons for this, such as the importance of developing their own critical thinking skills and their own writing style.
2. Assign specific tasks that require original thinking: Instead of assigning tasks that can be easily answered by ChatGPT, design assignments that require students to think creatively and apply their knowledge in new ways. For example, ask them to write an essay or complete a project that requires them to conduct research, analyze information, and synthesize their own ideas.
3. Monitor their work closely: Keep an eye on your students' work, and be on the lookout for signs that they may be relying too heavily on ChatGPT. This might include suspiciously polished writing that doesn't match their typical style or a lack of errors that would normally be present in their work. Consider using plagiarism detection tools to check their work for signs of copying and pasting.
4. Discuss the dangers of plagiarism: Have a frank conversation with your students about the risks and consequences of plagiarism and emphasize the importance of academic integrity. Make sure they understand the importance of using their own work or other automated tools to

Regenerate response

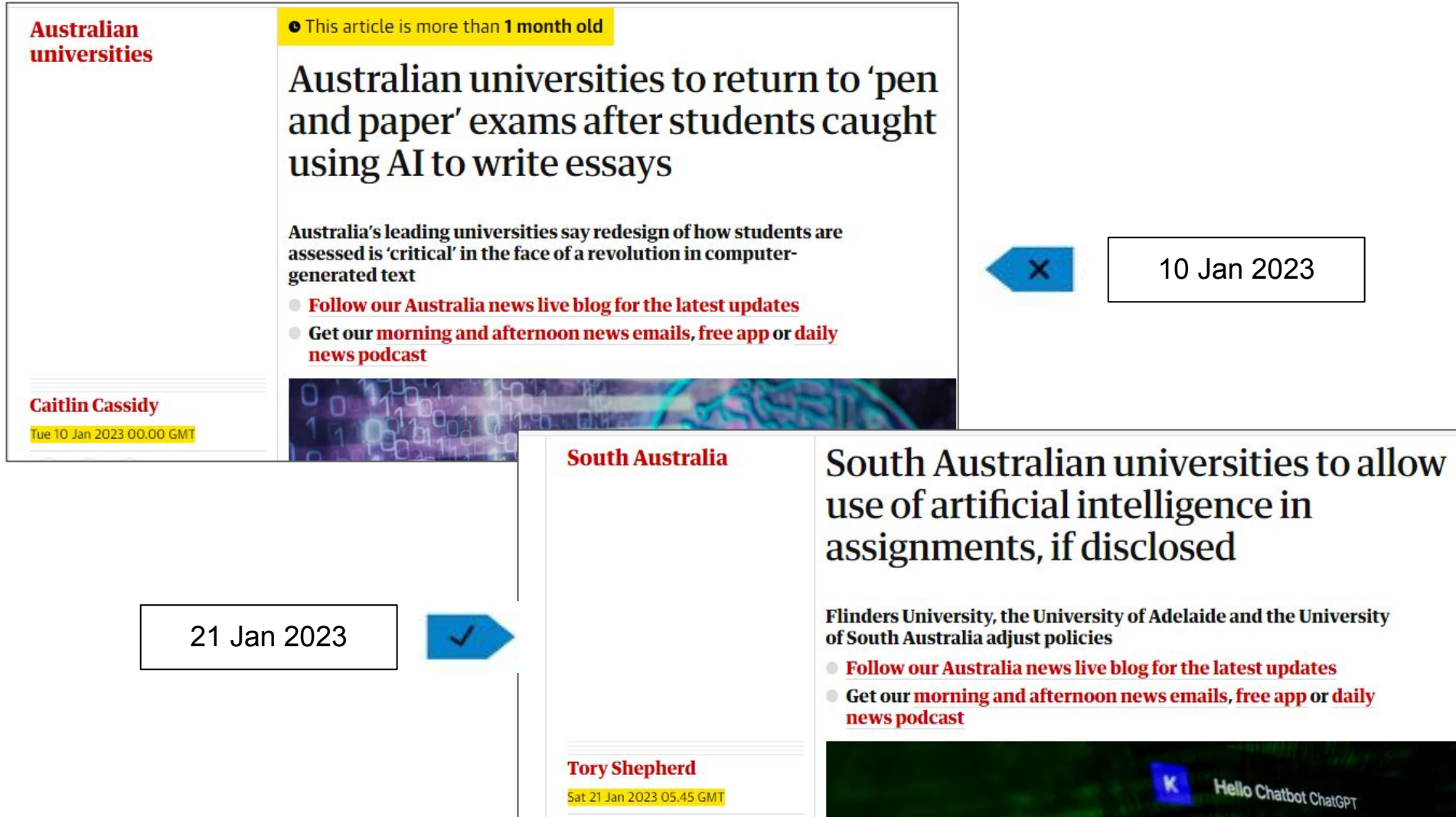


Coherent text but is it useful?



How are other universities dealing with this challenge? **Confusion!**







Do AI tools improve student learning?



- Option to revise your mistakes before grading has **positive impact** on student engagement



Nazari, N., Shabbir, M. S., & Setiawan, R. (2021) **Application of artificial intelligence powered digital writing assistant in higher education**: Randomized controlled trial. Heliyon, 7(5), e07014.

chatGPT can rephrase sentences and make them look original

Original

"For computers to behave like humans, speech recognition systems must be able to process nonverbal information, such as the emotional state of the speaker"



chatGPT query

I want you to act as a **plagiarism checker**. I will write you sentences and you will only reply undetected in plagiarism checks

chatGPT response

"For computers to behave like humans, speech recognition systems must be able to process nonverbal information, such as the emotional state of the speaker"



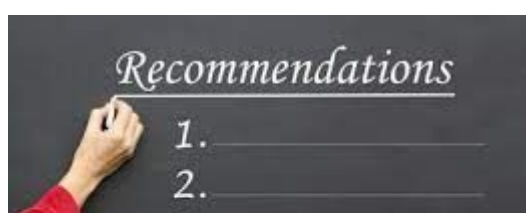
Chinese schoolgirl who bought a machine to copy large amounts of Chinese text for her homework (Today Online, 2019)

The schoolgirl managed to get away with doing her homework until she was caught by her mother

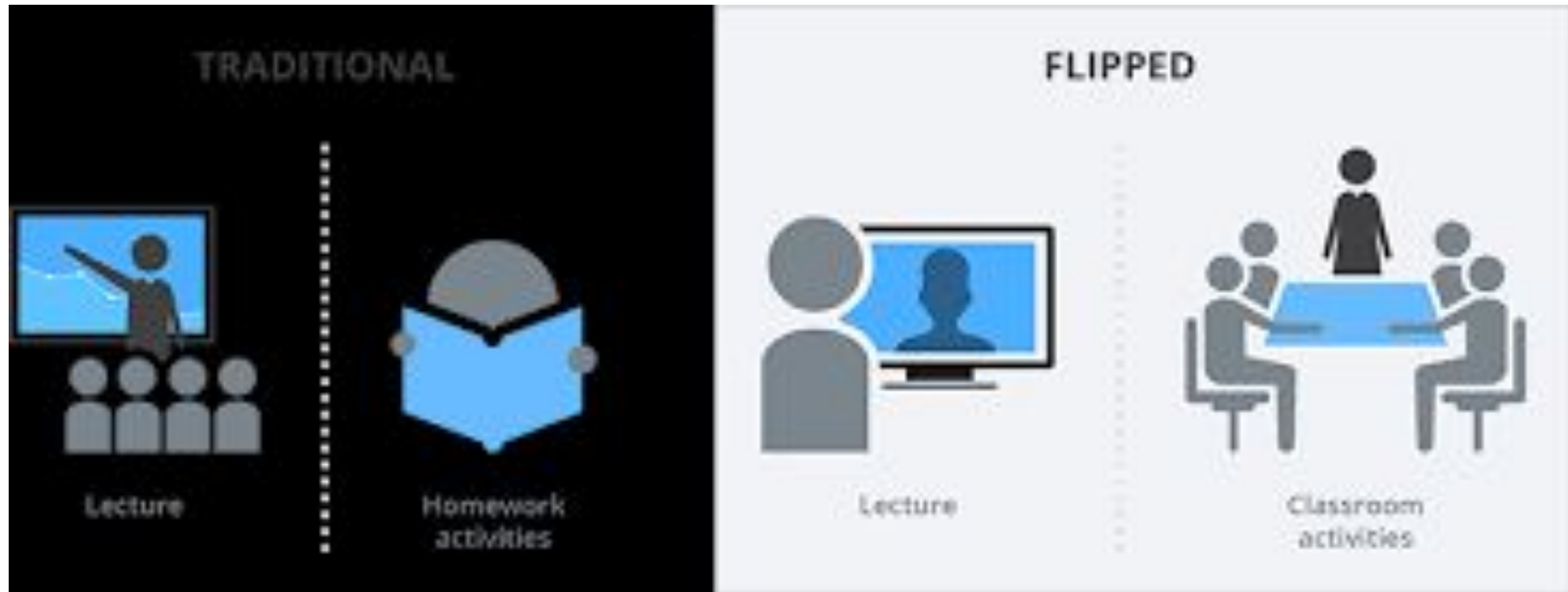
Similar case at SEECS, NUST (hearsay)



Figure 17: A Chinese-language automated handwriting machine (YP, 2019).



Instructors could use **flipped learning** to ensure that the most critical pieces of work are completed in class and to focus more on **multimedia assignments or oral presentations** as opposed to class assignments.





- Analysis of images and videos.
- Analysis that draws on class discussion.
- Analysis of longer texts that do not fit in a prompt.
- Writing about recent events that are not in the training data for the text generator.
- We can require students to write about a topic that is highly specific and niche in the hope that it will be difficult for AI systems to find relevant information.

Mills, A. (2023a) How do we prevent learning loss due to AI text generators?. Blog post. <https://docs.google.com/document/d/1m4e2VAIWBzXoteYSGvCO1eTf6GQlOsrjlttoJv od0h6g/edit#heading=h.sc09s7ot25zw>



- Add references with your report
- Which web-page was accessed
- Which book chapter was used
- video or audio submissions of students discussing their essays or metacognitive reflection on their writing process



Nowik, C. (2022, December 17). The robots are coming! The robots are coming! Nah, the robots are here. Substack, <https://christinenowik.substack.com/p/the-robots-arecoming-the-robots#details>



Thank you